Exhibit A

Clean Version of The Pending Claims in U.S. Patent Application Ser. No. 09/975,308

- 1. (Amended) An isolated expression vector comprising the nucleotide sequence of SEQ ID NO:8.
- 2. (Amended) An isolated expression vector comprising a nucleic acid sequence encoding the amino acid sequence of SEQ ID NO:9.
 - 3. (New) A host cell comprising the recombinant expression vector of claim 1 or 2.



TM Proteins and Polynucleotides Encoding the Same

BD144530 ACCESSION: BD144530 NID: gi 27850288 dbj BD144530.1 Novel G-protein coupled receptors Length = 924

Score = 617 bits (1574), Expect = e-174Identities = 305/307 (99%), Positives = 307/307 (99%)

Frame = +1

Query: 1	MNHSVVTEFIILGLTKKPELQGIIFLFFLIVYLVAFLGNMLIIIAKIYSNTLHTPMYVFL 60
	MNHSVVTEFIILGLTKKPELQGIIFLFFLIVYLVAFLGNMLIIIAKIY+NTLHTPMYVFL

Sbjct: 1 MNHSVVTEFIILGLTKKPELQGIIFLFFLIVYLVAFLGNMLIIIAKIYNNTLHTPMYVFL 180

Query: 61 LTLAVVDIICTTSIIPKMLGTMLTSENTISYAGCMSQLFLFTWSLGAEMVLFTTMAYDRY 120 LTLAVVDIICTTSIIPKMLGTMLTSENTISYAGCMSQLFLFTWSLGAEMVLFTTMAYDRY

Sbjct: 181 LTLAVVDIICTTSIIPKMLGTMLTSENTISYAGCMSQLFLFTWSLGAEMVLFTTMAYDRY 360

Query: 121 VAICFPLHYSTIMNHHMCVALLSMVMAIAVTNSWVHTALIMRLTFCGPNTIDHFFCEIPP 180 VAICFPLHYST+MNHHMCVALLSMVMAIAVTNSWVHTALIMRLTFCGPNTIDHFFCEIPP

Sbjct: 361 VAICFPLHYSTVMNHHMCVALLSMVMAIAVTNSWVHTALIMRLTFCGPNTIDHFFCEIPP 540

Ouery: 181 LLALSCSPVRINEVMVYVADITLAIGDFILTCISYGFIIVAILRIRTVEGKRKAFSTCSS 240

LLALSCSPVRINEVMVYVADITLAIGDFILTCISYGFIIVAILRIRTVEGKRKAFSTCSS

Sbjct: 541 LLALSCSPVRINEVMVYVADITLAIGDFILTCISYGFIIVAILRIRTVEGKRKAFSTCSS 720

Query: 241 HLTVVTLYYSPVIYTYIRPASSYTFERDKVVAALYTLVTPTLNPMVYSFQNREMQAGIRK 300

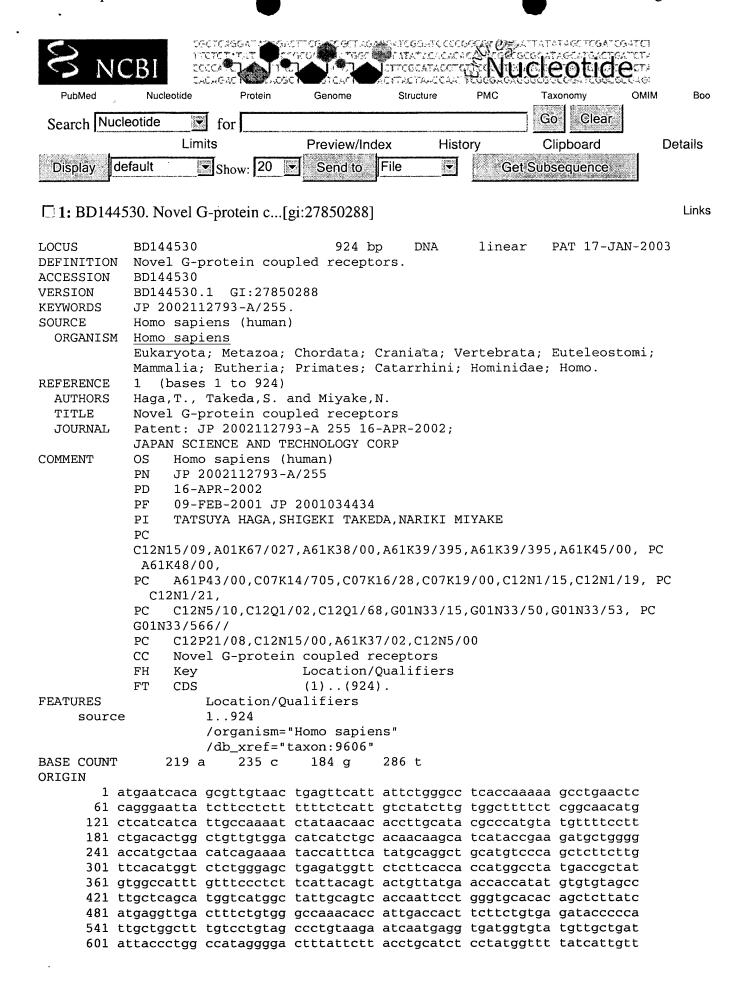
 $\verb|HLTVVTLYYSPVIYTYIRPASSYTFERDKVVAALYTLVTPTLNPMVYSFQNREMQAGIRK|$

Sbjct: 721 HLTVVTLYYSPVIYTYIRPASSYTFERDKVVAALYTLVTPTLNPMVYSFQNREMQAGIRK 900

Query: 301 VFAFLKH 307

VFAFLKH

Sbjct: 901 VFAFLKH 921



```
661 gctattctcc gtatccgcac agtagaaggc aagaggaagg ccttctcaac atgctcatct 721 catctcacag tggtgaccct ttactattct cctgtaatct acacctatat ccgccctgct 781 tccagctata catttgaaag agacaaggtg gtagctgcac tctatactct tgtgactccc 841 acattaaacc cgatggtgta cagcttccag aatagggaga tgcaggcagg aattaggaag 901 gtgtttgcat ttctgaaaca ctag
```

Revised: July 5, 2002.

//

<u>Disclaimer | Write to the Help Desk</u> <u>NCBI | NLM | NIH</u>

Feb 19 2003 14:49:48

Sequences producing significant alignments:	Score (bits)	E Value	
AC091612.4.1.180657	1824	0.0	
>AC091612.4.1.180657 Length = 180657			
Score = 1824 bits (920), Expect = 0.0 Identities = 923/924 (99%) Strand = Plus / Minus			
Query: 1 atgaatcacagcgttgtaactgagttcattattctgggcctcaccaaaaagc			
Sbjct: 155813 atgaatcacagcgttgtaactgagttcattattctgggcctcaccaaaaagc	ctgaactc	155754	
Query: 61 cagggaattatcttcctcttttttctcattgtctatcttgtggcttttctcg		120	
Sbjct: 155753 cagggaattatcttcctcttttttctcattgtctatcttgtggcttttctcg		155694	
Query: 121 ctcatcattgccaaaatctatagcaacaccttgcatacgcccatgtatg		180	
Sbjct: 155693 ctcatcatcattgccaaaatctataacaacaccttgcatacgcccatgtatg		155634	
Query: 181 ctgacactggctgttgtggacatcatctgcacaacaagcatcataccgaaga		240	
Sbjct: 155633 ctgacactggctgttgtggacatcatctgcacaacaagcatcataccgaaga		155574	
Query: 241 accatgctaacatcagaaaataccatttcatatgcaggctgcatgtcccagc		300	
Sbjct: 155573 accatgctaacatcagaaaataccatttcatatgcaggctgcatgtcccagc		155514	
Query: 301 ttcacatggtctctgggagctgagatggttctcttcaccaccatggcctatg			
Query: 361 gtggccatttgtttccctcttcattacagtactattatgaaccaccatatgt			
Query: 421 ttgctcagcatggtcatggctattgcagtcaccaattcctgggtgcacacag			

Query:	481	atgaggttgactttctgtgggccaaacaccattgaccacttcttctgtgagataccccca	540
Sbjct:	155333	atgaggttgactttctgtgggccaaacaccattgaccacttcttctgtgagataccccca	155274
Query:	541	ttgctggctttgtcctgtagccctgtaagaatcaatgaggtgatggtgtatgttgctgat	600
bbjec.	133273		
Query:	601	attaccctggccataggggactttattcttacctgcatctcctatggttttatcattgtt	660
Sbjct:	155213	attaccctggccataggggactttattcttacctgcatctcctatggttttatcattgtt	155154
Query:	661	gctattctccgtatccgcacagtagaaggcaagaggaaggccttctcaacatgctcatct	720
_			
SDJCC.	133133	getaeteetegeaeageagaaggeaagaggaaggeeteeteaaeaegeeteet	200071
Query:	721	catctcacagtggtgaccctttactattctcctgtaatctacacctatatccgccctgct	780
Sbjct:	155093	catctcacagtggtgaccctttactattctcctgtaatctacacctatatccgccctgct	155034
Ouery:		tccagctatacatttgaaagagacaaggtggtagctgcactctatactcttgtgactccc	840
~ •			
SDJCt:	155033	tccagctatacatttgaaagagacaaggtggtagctgcactctatactcttgtgactccc	134574
Query:	841	acattaaacccgatggtgtacagcttccagaatagggagatgcaggcag	900
Sbjct:	154973		154914
0			
Query:	901	gtgtttgcatttctgaaacactag 924	

